

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: ZARRO, *et al.*

Examiner:

Serial No.:

Group No.:

Filed: Herewith

Title: MULTI-BAND HORN ANTENNA USING FREQUENCY SELECTIVE
SURFACES

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR 1.97(b)

Mail Stop Patent Applications
Commissioner for Patents
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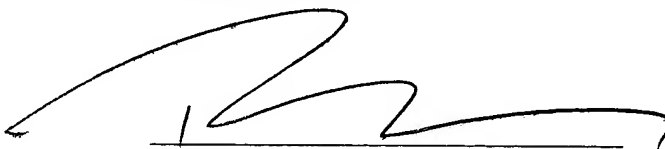
Sir:

The accompanying documents are being submitted in compliance with 37 CFR 1.97 and 1.98. A list of documents on form PTO-1449 together with a concise explanation or a translation of each non-English language document is enclosed herewith.

This paper is submitted in accordance with 37 CFR 1.97(b) and a fee is not required for consideration of these documents.

Respectfully submitted,

Date:

7/7/03

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Docket No. 7162-98

Form PTO-1449 (Rev. 2-88)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 7162-98		APPLICATION NO.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT ZARRO, et al.		FILING DATE 	
				GROUP			

U.S. PATENT DOCUMENTS							
EXAMINER'S INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS							

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
PCT/GB92/01173	6/29/92	PCT				

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
EXAMINER	"Wave guidance and radiation from a hollow tube formed from frequency-selective surfaces," A.J. Robinson, J.C. Vardaxoglou, and R.D. Seager, Electronics Letters, Aug. 19, 1993, Vol. 29, No. 17. "Realisation of frequency selective horn antenna incited from passive array," J.C. Vardaxoglou, R.D. Seager and A.J. Robinson, Electronics Letters, Oct. 8, 1992, Vol. 28, No. 21. "Development of a 7.2-, 8.4-, and 32-Gigahertz (X-/X-/Ka-BAnd) Three-Frequency Feed for the Deep Space Network," Stanton, P.H.; Hoppe, D.J., and Reilly, H. TMO Progress Report 42-145, May 15, 2001 "Frequency Selective Surfaces in the GHz and the THz Region: Analysis and Experimental Results," Bozzi, Maurizio and Perregrini, Luca. Terahertz and Gigahertz Electronics and Photonics, II. Proceedings of SPIE Vol. 4111 (2000) "Arrays of Concentric Rings as Frequency Selective Surfaces," Parker, E.A., Hamday, S.M.A., and Langley, R.J. Electronics Letters, Nov. 12, 1981, Vol. 17, No. 23. "Single-Layer Multiband Frequency-Selective Surfaces," Lee, C.K., Langley, R.J., and Parker, E.A. IEE Proceedings, Vol. 132, Pt. H. No. 6, October 1985. "Frequency Selective Surfaces," Parker, E.A., Langley, R.J., Cahill, R., and Vardaxoglou, J.C. Electronics Laboratories, The University of Kent, Canterbury, UK. Pg. 459. "Novel for 'Soft' Horn Antenna for Multiband Operation," Vardaxoglou, J.C., Seager, Robert D., Robinson, Alan J. Loughborough University of Technology, Department of Electronic and Electrical Engineering, Loughborough Leicestershire LE 11 3TU
DATE CONSIDERED	

* EXAMINER: Initial if a citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.